KARNATAKA TEST HOUSE PVT. LTD.

MATERIAL TESTING LABORATORY

778/44, Gokul 1st Stage, 2nd Phase, 8th Cross, Triveni Road,
Yeshwanthpur, Bangalore - 560 054.
Tele : 23378383 , 23375326 E-mail : kthblr@gmail.com Webstie : www.karnatakatesthouse.com

Report No. : KTH/C.AGG/2803-4796a/2013-2014 **Date: 20.03.2014**

TEST REPORT ON AGGREGATE
(Coarse Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Kodigehalli Sub Division,
BBMP, Bangalore.

Name of the Project* : Reconstruction of SWD drains in Byatarayanapura Village in ward No.07.

Name of Contractor* : Mr. C.T. Somashekar, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 17.03.2014.

Technical Reference : IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Coarse Aggregate - 40mm & down size

Sl. No.	Sieve size mm	% Passing	IS : 383-1970 Stipulations		Remarks
			Single Size	Graded Size	
1	63	100	100	100	Sample does not confirms to IS: Stipulation of 40mm size Aggregate.
2	40	48.09	85 to 100	95 to 100	
3	20	0.08	0 to 20	30 to 70	
4	12.5	-	0 to 20	-	
5	10	-	0 to 5	10 to 35	
6	4.75	-	-	0 to 5	

Sl. No.	Test Conducted	Identification mm	Results	IS : 383 – 1970 Stipulations
1	Flakiness Index (%)	40	12.65	Not specified
2	Elongation Index (%)	40	13.54	Not specified
3	Impact Value (%)	40	25.67	Shall not be more than 45% for Concrete and 30% for Wearing surfaces, such as runways, roads and pavements.

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C.)
TECHNICAL MANAGER

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Report No. : KTH/C.AGG/2803-4796/2013-2014 **Date: 20.03.2014**

TEST REPORT ON AGGREGATE
(Coarse Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Kodigehalli Sub Division,
BBMP, Bangalore.

Name of the Project* : Reconstruction of SWD drains in Byatarayanapura Village in ward No.07.

Name of Contractor* : Mr. C.T. Somashekar, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 17.03.2014.

Technical Reference : IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Coarse Aggregate - 20mm

Sl. No.	Sieve size mm	% Passing	IS : 383-1970 Stipulations		Remarks
			Single Size	Graded Size	
1	40	100	100	100	Sample confirms to Single size of IS: Stipulation of 20mm size Aggregate.
2	20	85.4	85 to 100	95 to 100	
3	16	35.4	-	-	
4	10	5.9	0 to 20	25 to 55	
5	4.75	1.4	0 to 5	0 to 10	

Sl. No.	Test Conducted	Identification mm	Results %	IS : 383 – 1970 Stipulations
1	Flakiness Index (%)	20	13.40	Not specified
2	Elongation Index (%)	20	18.70	Not specified
3	Crushing Value (%)	20	23.16	Shall not be more than 45% for Concrete and 30% for Wearing surfaces, such as runways, roads and pavements.

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

Assistant Executive Engineer
Kodigehalli Sub Division
B.B.M.P.

(SREENIVASA.C)
TECHNICAL MANAGER

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Report No. : KTH/F.AGG/2803-4797/2013-2014 **Date: 20.03.2014**

TEST REPORT ON AGGREGATE
(Fine Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Kodigehalli Sub Division,
BBMP, Bangalore.

Name of the Project* : Reconstruction of SWD drains in Byatarayanapura Village in ward No.07.

Name of Contractor* : Mr. C.T. Somashekar, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 17.03.2014.

Technical Reference : IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Fine Aggregate (River Sand)

Sl. No.	Sieve size mm	% Passing	IS : 383 – 1970 Specification				Remarks
			% passing for Zone I	% passing for Zone II	% passing for Zone III	% Passing for Zone IV	
1	10	100	100	100	100	100	Falls in Zone –III as per table 4 of IS-383 – 1970.
2	4.75	97.6	90 – 100	90 – 100	90 – 100	95 - 100	
3	2.36	94.1	60 – 95	75 – 100	85 – 100	95 - 100	
4	1.18	83.6	30 – 70	55 – 90	75 – 100	90 - 100	
5	0.600	64.9	15 – 34	35 – 59	60 – 79	80 - 100	
6	0.300	13.2	5 – 20	8 – 30	12 – 40	15 to 50	
7	0.150	1.2	0 – 10	0 – 10	0 – 10	0 to 15	

Sl. No.	Test Conducted	Results	IS : 383 – 1970 Stipulations
1.	Materials finer than 75 microns (%) (Deleterious Material)	2.0	Shall not be more than 3.0 %.
2.	Fineness Modulus	2.38	Min - 2.0 Max – 3.5

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

Assistant Executive Engr.
Kodigehalli Sub Division
Yelahanka Z. O, B.B.M.P
Bangalore.

(SREENIVASA.C)
TECHNICAL MANAGER

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Report No. : KTH/CEMENT/2803-4798/2013-2014 **Date: 26.03.2014**

PHYSICAL TEST REPORT ON CEMENT

Interim 3 & 7 days

Name of the Customer* : **The Assistant Executive Engineer,**
Kodigehalli Sub Division,
BBMP, Bangalore.

Name of the Project* : Reconstruction of SWD drains in Byatarayanapura Village in ward No.07.

Name of Contractor* : Mr. C.T. Somashekar, Bangalore.

Source of Sample : Supplied by the Customer.

Type of cement* : Ordinary Portland Cement (OPC)

Brand of cement* : Coramandel 43 Grade.

Sample Received on : 17.03.2014

Period of test : 17.03.2014 to 25.03.2014.

Technical Reference : IS: 4031(Part I–VI)1988 (Reaffirmed–2000) & IS : 8112-1989

Sl. No.	Test Conducted	Results	IS: 8112-1989 Stipulation	Remarks
1	Normal consistency	27.75 %	Not specified	-
2	Initial setting time	116 minutes	Shall not be less than 30 minutes	P
3	Final setting time	280 minutes	Shall not be more than 600 minutes	P
4	Compressive strength (Average of three results) a. 72+1h (3 days) b. 168+2h (7 days) c. 672+4h (28 days)	 23.80 MPa 34.53 MPa T.T.C	 Shall not be less than 23.0 MPa Shall not be less than 33.0 MPa Shall not be less than 43.0 MPa	 P P -
5	Fineness (By Blaine's air permeability method)	281.46 m^2/kg	Shall not be less than 225m^2/kg	P
6	Soundness (Le-chatlier's method)	0.90 mm	Shall not be more than 10 mm	P

P: Passes IS requirement F: Fails IS requirement T.T.C: Test To be Conducted.
*As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C.)
TECHNICAL MANAGER

Assistant Executive Engineer
Kodigehalli Sub Division
Bangalore

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